#### DOCUMENT RESUME

ED 373 039 SP 035 380

Charged Up for Fire Safety. Fifth Grade. Fire Safety TITLE

for Texans: Fire and Burn Prevention Curriculum

Guide.

Texas State Commission on Fire Protection, Austin. INSTITUTION

PUB DATE Mar 93

NOTE 39p.; For other guides in the series, see SP 035

375-385.

AVAILABLE FROM Texas Commission on Fire Protection, Fire Prevention

Education, P.O. Box 2286, Austin, TX 78768.

PUB TYPE Guides - Classroom Use - Teaching Guides (For

Teacher) (052)

MF01/PC02 Plus Postage. EDRS PRICE

Community Services; \*Fire Protection; First Aid; DESCRIPTORS

> Grade 5; Injuries; Instructional Materials; Intermediate Grades; Learning Activities; Lesson Plans; Prevention; \*Safety Education; State

Curriculum Guides

**IDENTIFIERS †Texas** 

#### **ABSTRACT**

This booklet comprises the fifth grade component of a series of curriculum guides on fire and burn prevention. Designed to meet the age-specific needs of fifth grade students, its objectives include: (1) exploring heating equipment safety, (2) analyzing the impact of fire on the outdoor environment and methods to reduce that impact, (3) developing awareness of first aid for burns, and (4) exploring one's personal relationship to community fire safety. Texas essential elements of instruction that may appropriately be integrated with the fire prevention curriculum are listed. The booklet's three sections provide lesson plans, teacher materials, and student materials. The five lessons are: "Charged Up for Home Safety"; "Charged Up To Save the Outdoors"; "Fire Hurts the Entire Community"; "We All Contribute to Community Safety"; and "Fire Safety for Yourself." Each lesson plan includes objectives; a list of materials; and suggestions for a focus activity, presentation of content, guided and independent practice, reteaching, enrichment, and closure. A pretest/posttest is provided, along with activity sheets to be photocopied. A scope and sequence chart covering kindergarten through high school is also presented. (JDD)

96 to to the time of the time



<sup>70</sup> Reproductions supplied by EDRS are the best that can be made from the original document.



## Fire Safety for Texans

Fire and Burn Prevention
Curriculum Guide Developed by
Texas Commission on Fire Protection

U.S DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

- This document has been reproduced as received from the person or organization originating it
- Minor changes have been made to improve reproduction quality
- Points of view or opinions stated in this document do not necessarily represent official OERI position or policy

PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

M. E. Hines

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

# Charged Up Fifth Grade Charged Up For Fire Safety





P.O. Box 2286 Austin, TX 78768-2286 (512) 918-7100 FAX (512) 918-7107

#### Dear Educator:

The Texas Commission on Fire Protection is pleased to provide this curriculum guide to facilitate the teaching of fire prevention. To understand why instruction in fire prevention must be matched to the developmental needs of students, please read the introduction section beginning on Page 3. This introduction also tells how fire prevention education can be coordinated with the instructional requirements of Texas schools.

We welcome your comments and suggestions. Please telephone or write to share your successes and questions with our staff. Also, we invite you to request guides for other grade levels and additional copies of this booklet by clipping and returning the form below.

Your involvement in fire prevention education will be appreciated by your students and your entire community.

_				
€:	n	יםי	rΔ	IV.
u	111	,,	10	и.

Anne Easterling
Program Administrator
Fire Prevention Education

•						
ΡI	9369	send	the	following	curriculum	quide(s)

Grade Level	Quantity	Grade Level	Quantity	Grade Level	Quantity
Kindergarten		Fourth Grade		Seventh Grade	
First Grade	<del>                                     </del>	Fifth Grade		Eighth Grade	
Second Grade		Sixth Grade		High School Health	
Third Grade				High School Economics	

Comments and suggestions on Grade	guide(s):		
Are you currently using other materials prod	uced by the Commission on Fire Protection?	(Circle one) Yes No	
Name	man takan s		
Address			
City	_	<b>Z</b> IP	
Mail to: Texas Commission on Fire Protection	on, Fire Prevention Education, P.O. Box 228	6, Austin, TX 78768	





## Fire Safety for Texans

Fire and Burn Prevention
Curriculum Guide Developed by
Texas Commission on Fire Protection

Charged Up
Fifth Grade
Charged Up
For Fire Safety



Published March 1993
Texas Commission on Fire Protection
Michael E. Hines, Executive Director
Ernest A. Emerson, State Fire Marshal
Anne Easterling, Program Administrator
Fire Prevention Education
P.O. Box 2286, Austin, Texas 78768-2286
(512) 873-1700

- The Texas Commission on Fire Protection does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or in its activities. For fire prevention information presented in other media, write to the address above.
- Additional copies are available from the address above. This publication may be reproduced in its entirety. Such reproduction must include credit to the original producer, specifically the Texas Commission on Fire Protection.
- ☆ Copies of this publication have been distributed in compliance with the State Depository Law and are available for public use through the Texas State Publications Depository Program at the Texas State Library and other state depository libraries.



## Fire Safety for Texans

The complete series from the Texas Commission on Fire Protection

Kindergarten
Fire Safe Together

First Grade
Fire Safety: Any Time, Any Place

Second Grade
Making Me Fire Safe

Third Grade
Positively Fire Safe

Fourth Grade
Fire Safety: Stop the Heat

Fifth Grade Charged Up For Fire Safety

Sixth Grade
Fire Safety Power

Seventh Grade
Responsible For Fire Safety

Eighth Grade Fire Safety's My Job

Health (High School)

A Lifetime For Fire Safety

Economics (High School)

Fire Safety For Consumers



Scope and Sequence for Fire and

	- desmarker	rst Grade		LING OTHER	ourth Grade
	Nai Ameri		eac understanding of how to prevent		inciples of extinguishing fires; insues related to peer previous related to fire
	dangers; ample actions to reduce	htchards; basic understanding of semple injury reduction; continuation of parent involvement	and put out fires; greater self-direction to prevent and react to fire, smoke or burn estusions	liquids, positive actions to prevent first and burns or to reduce injuries, especially related to metallic objects.	revised to poer pressure resists to we setting; self-modivation to affect changes with territy involvement; rale of five service in the community
				defines and gives examples of	serprets three elements of fire to suplain
ence of Pire inderstands and analyzes facts about ire	enumes *25/a/3A, 26/a/1C	'25(b)2C	epiens puteng out a fire as removing or controlling one element "25(c)38, 25(c)1C defines and gives examples of controlled and uncontrolled fires "25(c)38, 26(c)1C	combustible, noncombustible,	how to prevent and entinguish fires "25(a)88, 26(a)16 (discribes characteristics of heated gases from fires "25(a)48, 26(a)16
emunication	ientifies EXIT signs in schools and public buildings "29(a)1E lentifies "hot" and "cold" symbols on feworts "26(a)1C, 29(a)1E		·		
knows, performs and analyzes sectionicums to reduce fire and burn	ground in case of clothing fire "25(a)3C, 26(a)1C, 29(a)1D demonstrates and practices crawing on ground in amole of fire situations	demonstrates cooling a burn with cool water *25(b)58, 26(b)1C, **1.1 demonstrates and describes crawing in supported smoke or fire situation because smoke nees *25(b)2C, 28(b)1C, **1.1 demonstrates and describes rolling to put	explains using cool water to reduce burn injury "25(c)78, 26(c)1C explains that rolling on ground teaps air from fire on clothes "25(c)78, 26(c)1C explains that smoke and gaines from fire cars affect training "25(c)78, 26(c)1C	explains injury reduction skills to others through song, dance, story, demonstration, etc. "25(d)10,1E	lets and describes effects of toxic general in amote and fire byproducts "25(e)76 26(e)1G, "* 1.4
eserá flecognition recognizas fire and burn hazards at home, play and work	clessifies hot and cold objects, including organistics and appliances "25(a)1A.3A, 26(a)1C identifies amolong ciganistics as a hizzard to cause burns and to start fires "26(a)1D	out clothes fire "26(b)1C, "1.1 desinguishes electrical objects, a potential hiest acurose, as having conts "25(b)28 AB identifies home and community as city or rural and types of related fire risk "25(b)60, 29(b)5A, "1.6	predicts how electrical appliances can become hazards through carelessmen misuse, disrepair, including unstende cooking "25(c)6A, 26(c)1C identifies special holiday hazards releted to family customs or tradeuns "26(c)1C, 29(c)68	distinguishes metals coopers as consect burn hazards *25(d)68.84, 25(d)1E identifies positive behaviors with hazardous appliances *25(d)1E	describes types of hazards from descarded cigarettes *25(e)1F
lezzed Reduction applies and visitues techniques for reducing or eliministing fire and burn hezzeds	etasse rule to stay aware from hot objects *25(a)1C, 29(e)1A talls paramis. "Keep me safe from fire" *29(e)1B	describes or Huerates need for smokers to have weithers "25(b)78, 26(b)10 encourages parents to conduct home suspection using provided checklet "25(b)78, 26(b)1C,28	describes benefit of lemely working together to reduce fire and burn hazards "25(c)28 writes at least five rules for sale behavio "25(c)10	month *28(d)1E	enuebons, including removal of fire hazards "25(a)1F identifies sately teatures in school, has and other buildings "28(a)1F,1G
Eacepse And Dritts knows and applies methods of fire and amoke warmings and eaceps and exit techniques; values the importance of amore descrors and eaceps planning	demonstrates actors in actool exit drills "26(e)1C, 29(e)1D	identified amothe starm as warming to get out "25(b)1C draws map of home with two ways out to everyone "25(b)4D states steps and rules for school saxt drift "26(b)1C, 29(b)4B	detector placement (each level, custide badrooms) "26(c)1C describes or illustrates ahemate ways of of a building "26(c)1C organizasi home drill "26(c)1C,28, 29(c)1C	"25(d)78, 26(d)16,285 identifies low bettery warning on smalls detector "26(d) 1D	explains need for exit plans and drills, expecially at home "25(a)4A, 26(a)1F,2C, 29(a)1A, "1.8 demonstrates resisting peer pressure
Metches And Finestting recognizes hazards of matches, lighters and other finestting instruments; knows and values techniques for reducing intentional lines.	demonstrates telling an adult if he/she sees matches "25(a)1C, 29(a)1A	describes or illustrates matches as took for adults *26(b)1C	describes why matches are not toys "26(c)1C	describes how marches can be used safety *26(d)1E	related to fire, matches and smotur "29(a)1C, "1.8
Reporting A Fire Invers and applies appropriate methods of reporting suspected fire or smoke assistions	demonstrates telling an adult about amoise or fires "25(e)3C, 26(e)1C	demonstrates yelling and other aignals wern others "25(b)1C memorase emergency telephone num "25(b)1C	telephone number "26(c)10	describes or demonstrates what to report in an emergency situation *26(d)1D	describes local locations and uses of alarm boxes "26(e)1F
Care Giving understands and values appropriate supervision of and intervention for other people, especially young childle and older adults.	tale parents to give fire safety rules to beby-sater *25(a)1C en			writes rules for baby-after or care give for tamey, with parents' assutance is consideration of ages of tamey members *26(d)28, 29(d)2A, 68	nd
The Fire Service understands and values the role of fire service in preventing and suppressing fires	identifies fire fighters and other fire service workers as friends *29(a)15	describes his fighter as community his who helps prevent tree and who pout fines "25(b)7C, 29(b)4C, "1.7"	elper identifies ways that fire highters are anyoned in fire suppression and prevention "29(c)4A		less the four primary services provide fire services "25(e)3A describes fire department's role in the community stay safe and he "25(e)3A. "1.7"
Outdoor Selety Imove and applies techniques for reducing outdoor fires and injuries	demonstrates or illustrates staying av from campfire, trash burning, stc. rom "25(a)10"	Jetinguishes how outdoor fires are different from building fires *25(b) 26(b) 3, **1.6	isentries outdoor electrical hazarts 6D. (storms, tools, camplines) "25(c) 26(c)3A, "2.9	iB.	describes safe practices with firev *29(a)36, **1.5 wrises at least five rules for outdoor safety *25(a)38

#### **Burn Prevention Education In Texas**

	Chab Carde	eventh Grade		N981UI	conomics
(1) (4) (4)	OWIN COLORA		technical aspects of fire hexards and		mareness of adult responsibless to preserve family, properly and
ing equipment salety; impact of fire n outdoor environment and methods i reduce that impact; first aid for urns; personal relationship to ommunity fire salety	fire physics; electrical histande and negonding to those histands; continuation of first eld for burns	fire and burn hazards, including peer pressure related to fire nets; preparation for and reaction to possible fire seasons	detection; fire hazards cutaide the home	sechniques and emergency actions; evisioness of needs of all age groups; emolung and flemmable liquids	economy; property and economy; properties on maintening one's own home; U.S history of fire and burn incidents
	isss types of heat and fust to define classes of fire "25(g)20, "3.1 describes touch element of fire, uninhibited chemical reactions "25(g)48, "3.1 describes three types of fire exangulaters "25(g)1H		defines and describes flesh point, flesh fire, flemmability of construction and clothing types *44(b)7D	Identifies and describes againste health	defines terminology relating to fire
Pyzes product advertisements for fire and burn eatily information *28(1)2A		analyzas product labels for fire safety. Including flammable or combustible warnings, nonlammable labels "44(a)11C communicates hazards of amoking, using writen, Bustration or oral format "48(a)1D		mosages and writes cigarette fre selety messages "55(a)1A,1D,2A identifies and describes ferrimable liquid warrangs on home-use products, cleaners, pasaline, etc. "65(a)1E	insurance and home safety (detections, spnniklers, etc.) *89-40
contras times classes of burns and fire aid for each "2R(f)1G,2D	t cleasifies act types of burns by causes (consect, UV, charmost, etc.) "26(g)2D describes special first aid actions for burns other than contact burns "26(g)2D			emoke situations and first aid for three types of burns "65(a)1E	describes the economic impact of fires
eplans hazards of heating equipment, including safety considerations such as UL inspection certification and proper placement "25(f)78, 26(f)1H, "2.6 analyzes addety of alternative heating	describes why electricity and electrical appliances are fine and burn hazards, releting amount oil energy used by vanous appliences to their risk. "25(g)6D, "3.4"		less at least 10 typical hazards in the workplace, including industrial, refail and office *44(b)3	describes rule of carelesaness in fine and burn injunes, including operaties, heating and cooling "65(a)18.10.1G organizes and conducts comprehensive home inspection, including outdoors and nonliving areas "65(a)18,1E,1G	and related casualties in the U.S. 199- 18,1G
25(f)6E, 26(f)1H), "2.6 conducts inspection of home heating equipment with parents to check for sets usage "25(f)7B, 26(f)1H, "2.6 price examples of correcting holiday heating "25(f)1H	develops holiday checklist that applies fire easiety rules "25(g)78, 26(g)1H,2C	writes at least 1.3 rules for amokers  "44(a)118.C  describes safe practices with fire hazars  commonly found in home or outdoors  "44(a)11C  develops and implements home survey  instrument "44(a)11C	1	organizes and conducts comprehensive home clean-up, including outdoors and nonliving areas "&S(a)18,1E.1G	reactants "89-10-94 identifies hazard reduction efforts of vanous organizations, agencies "69- 24, 48
evaluates school ext drill "25(1)2D.&A. 26(1)1H (relate to vol ld)	analyzes prepared maps of other locations to show appropriate detecto placement "26(g)1H,2C draws map of home to scale to show smoke detector placement and home exit plan "25(g)78, 25(g)1H,2C	describes or demonstrates what to do s unusual orcumstances "44(a)11C,48(a)41 organizes an obstructed drill at achool	gmoke detectors *46(c)30 describes basic function of sprinitiers,		iess types of building code requirement for detections, approlders, exitis 189- 2A,48,4D
describes hazards of intentional fires, especially relating to weste and its resources "29(f)28	a of	describes alternative behaviors to pee pressure related to fireseting and smoking "44(a)11A, 48(a)1D identifies arron as a crime "48(a)2L writes at least five rules for using matches and lighters "44(a)11B,C			community and production "60-18,
identifies hexard of false alarms, especially relating to westing resources "29(f)28	prepares time in response to fire sighting and reporting "25(g)4E, 29(g)7A explains why to report smoke or suspected fire promptly "25(g)6D, 26(g)1H	describes how to discourage take all *44(a)11C,48(e)2L	sms		
		outines and details duess of baby-si *44(a)11C, 48(a)4[J	tter	describes general accident prevention and welches needs of children handcapped and serior children *65(a)1G.3E	describes fire and burn safety responsibilities of citizens in their as caregivers or providers 169-44
describes role of volunteer fire department in the community "21	describes professionals involved in emergency response and burn cs *26(g)3A	79		describes at least five community he services and other resources that assist in community fire safety "65(a)3D	
describes impact of grass and tree on land forms "25(f)6E. "2.2 larse seeps in sele procedures for to debns and cooling on charcosi fier, grit "26(f)38	*26(g)1H, **3.4	ares less comprehensive camping safet *44(s)4B	safety *44(b)7D investigates community laws on fit *44(b)7D	to gasoline, autos, outdoor tobe	ated   and
fairbest moderator and trush to red in bazand "26"/13P	luce fire		8 PEST CO	PY AVAILABLE	

			Second Grade	TRATE CATEGORY	Fourth Grade
	Kinderparten	First Crade	\$75.25 (c) 38. closely matter and forces.	§75. 25 (d) 6A. Use observations to form	\$75. 26 (e) 36. recognize
Essential Elements Current assential elements as defined by Chapter 75 of the Teres Education Code that apply: The student shall be provided opportunities to:	§75.25 (a) 1A. use comparators: heat/cold. 675.25 (a) 3A. classify objects by	objects, organisms, and events in the environment. \$75.25 (b) \$8. cleasify objects, organisms, actions, and events from the environment according to amiliarities and differences. \$75.25 (b) 48. describe objects, organisms, and events from the environment. \$75.25 (b) 40. record data and interpret the errangement of data on picture graphs, ber graphs, and maps. \$75.25 (b) \$8. compare temperature of objects. \$75.25 (b) \$0. draw conclusions from observed data. \$75.25 (b) 78. relate objects and activities to delty life \$75.25 (b) 10. recognize hazards in the environment, and acquire innovadge and skills needed to avoid injury and it prevent accidents.	organisms, actions, and events from the environment according to smillarities and differences.  \$75.25 (c) 88, describe objects, organisms, and events from the environment.  \$75.25 (c) 8A, predict the outcomes of actions based on expenence or data.  \$75.25 (c) 8A, predict the outcomes of actions based on expenence or data.  \$75.25 (c) 7B, relate objects, science principles, and activities to daily life.  \$75.26 (c) 1C, recognize hazards in the environment, and acquire browledge and stalls needed to avoid injury and to prevent accidents.  \$75.26 (c) 3B, recognize the health of the temby depends upon contributions of each of its stembers.  \$75.25 (c) 3B, recognize and the environment, and recognize personal responsibility for protecting the environment and recognize personal environment.  \$75.29 (c) 1C, volunteer for leadership environment in the community.  \$75.29 (c) 8B, describe family tradeons and customs.	grantons of objects, actions, organisms, events, and processes.  575. 26 (d) 28, recognize the health of the tensky depends upon contributions of each of its members.  575.25 (d) 68, state generalizations about similarities and differences among objects, organisms, and events.  575.25 (d) 7A, compare and contrast objects, organisms, and events.  575.25 (d) 7B, relate clearoom objects, solence principles, and activities to daily life.  575.25 (d) 39, obserty meter and forces, organisms, action, and events from the environment according to similarities and differences.  575.26 (d) 1D, practice general energency procedures.  575.26 (d) 1E, recognize hazards in the environment, and acquire innoviedge and skills needed to evoid injury and to prevent accidents.	Interdependence (2) people and the environment, and recognise personal responsibility for protecting the environment (575, 29 (e) 1A. accept the responsibilities of membership in visious recipies (575, 29 (e) 48. describe objects, organisms, and events from the environment, and events from the environment of accors based on superisone or deat. (575, 25 (e) 78. niese classroom objects, accence principles, and advivises to dely life. (575, 25 (e) 88. state relationships among operational definitions. (575, 26 (e) 1F. practice general emergency procedures (575, 26 (e) 1G. recognize hazards in the environment, and acquire knowledge and skills needed to evoid shury and to
** Science Content consent from the acrences that shall emphasized at the grade level shall include:		and community  Life Solonce  1.1 basc needs and life processes  1.6 ecology mardependence of livin things.  1.7 application of life science to caree and everyday life.	resources.	Physical Science 3.1 energy tonds of energy forms of energy scurces of energy 3.5 phases of matter: solids, liquid and gas. 3.6 structure of matter terrifies of elements: metals and nonwestals	Life Solemone 1.4 structure and function of the human body. 1.5 ecology interdepends toe of living things. 1.7 application of life science to career and everyday life. 1.8 human responsibility regarding life science phenomena.

03/09/93



			Eighth Grade		Economics
Fifth Grade §75.25 (f) 20. observe phenomena	Strth Grade §75.25 (g) 2D, observe phenomens and	Seventh Grade §75. 48 (a) 1D. recognize that individuals	§75.44 (b) 3. classify objects or events	675.65 (a) 1A. understand the live of	\$75.60 18, analyze how supply and demand effect proce
(1) 22), accesse president	ecply knowledge of theones, facts, and	must accept the consequences of their		body systems and their functions §75.65 (a) 1B. relate personal behavior to	\$75.60 1E. analyze the roles of economic
Othyrical sciences	concerns from the Sie astith and	decisions			incentives, voluntary exchange, private
\$75.25 (1) 6A. predict the cutcomes of	physical sciences	975.44 (a) 11B. investigate the range of	§75.44 (b) 7D, contrast human activities	wellness §75.65 (a) 1D. demonstrate responsible	property notes and compatition
actions based on experience or data	\$75.25 (g) 48. name and describe	ellects on personal health and safety		behavior concerning tobacco	475.60 1G. examine the roles of labor
\$75.25 (f) SE, draw conclusions from	objects, organisms, and events from	from the use of tabacco	\$75.48 (c) 3D, analyze the impact of		and consumers in the Amendan froe
observed data.	the environment	\$75.44 (a) 11C. discriminate between	technological innovations on business,	prevention, injury control and	enterprise system
\$75.25 (f) 7B. relete disservom objects.	\$75.25 (g) 4E. record data and interpret	responsible and irresponsible 0.:4664	industry and agriculture (in U.S.)	emergency action	\$75.69 2A, understand how the
ecience principles, and activities to	the arrangement of delix on graphs.	that affect personal health		\$75.65 (a) 1G. identify components of	government both protects and
daily life.	tables, and other visuals	§75,44 (a) 4B. describe ecological	<u> </u>	compreheneive accident prevention	requietes the operations of the market
\$75.26 (f) 1G. identify ways to core for	\$75.25 (g) \$D. form and state	relationships in the environment	<u> </u>	programs	aystem
the principal body systems	generalizations about emiliarities and	§75.44(a) 11A. determine alternate	l.	\$75.65 (a) 2A. analyze messages of	§75.60 4A, describe the rights and
\$75.26 (f) 1H. recognize hexards in the	differences among observed objects,	courses of action when one is being	1	advertising for health resources and	responsibilities of somumers
environment, and acquire imowledge	organisms, events, and phenomena	pressured concerning use of	1	activities	\$75.69 4B. identify agencies that
	\$75.25 (g) 7B. relate class com objects.	\$75.48 (a) 2L. support the rules and laws	1	\$75.65 (a) 3D, describe the wide range of	provide consumer protection §75.69 4D, define besic consumer
prevent accidents	ecience principles and activities to	of one's school, community, state and		resources designed to protect and	serminology in the areas of credit,
\$75.26 (1) 2A. recognize benefits and	daily life	netion		promote well-being of people	insurance, budgeting and home
	875.26 (g) 1F, Identity factors, including peer presence, that contribute to	\$75.48 (a) 41. develop orteria for making		\$75.65 (a) 3E. investigate current health	generated or leasing
selection of health products		iudomenis	l	esut4	
\$75.25 (f) 2D, recognize need for first aid	prevention	§75.48 (a) 4J. use problem-solving skulls	1	ì	1
\$75.26 (f) SA. identify locally available	\$75.26 (g) 1H. recognize hazards .n the		1	İ	
voluntary health agencies 675.26 (f) 38, recognize interdependent		1	•	1	
of people and the environment, and	and skills needed to avoid injury and to	اه	1		] 1
recognize personal responsibility for	prevent accidents	l	1	1	1
protecting the environment	\$75.25 (g) 2C, recognize the health of th	• [	<b>\</b>	i	1 1
\$75.29 (i) 28, explain why conservation			l l	1	1
ol economic resources is important	each of its members	Į.			1
	§75.25 (g) 2D, identify basic emergency				1
ł	treatment		l	1	1
	\$75.26 (g) SA, relate the system of healt	hj			1
1	services provided by government to	1	1	i	
1	the health needs of \$600/49	1	<b>,</b>	1	1
	\$75.29 (g) 7A. make and interpret time	<b>\</b>		l l	1
1	tines	,		· I	
1		1	l		
	1	1	I		
1					
1				<del></del>	1
Earth Science	Physical Science			ŀ	1
2.2 geology agents of weathering.	3,1 energy kinds of energy source	۱ ا			
erosion and deposition.	of energy transformation of energy		i i		1
2.6 mesorology effects of weather	from one form to another.	1	1	[	1
change and severe weather types		.		ĺ	1
effects of weather on human schrift			(	1	1
	esc.	1	Į		
1	i				



### Introduction



#### Introduction

#### Why teach fire and burn prevention?

Each year during the past decade, about 300 Texans have died in fires. The Texas Commission on Fire Protection is committed to reducing this alarming statistic. Analysis of fire statistics shows that the vast majority of fires — and the resulting fire deaths — could have been prevented. Regretfully, most people do not know or practice even simple actions that can prevent fires and burns.

The Texas Commission on Fire Protection believes the key to reducing fires and fire deaths is education. Fire safety education has traditionally been concentrated in elementary school observances of Fire Prevention Week. While these observances can produce effective results, thoughtful analysis of the fire problem and fire safety educational programs shows that a more comprehensive, age-appropriate approach to fire safety education can multiply its benefits.

Recognizing the limits of classroom instruction time, the Taxas Commission on Fire Protection has examined the Texas essential elements of instruction to determine the most appropriate topics with which to integrate fire prevention and fire safety. Teachers from across the state have provided feedback on topics appropriate for each grade level, kindergarten through high school.

The result of this extensive research is "Fire Safety for Texans," a series of curriculum guides teaching fire and burn prevention. Each grade-level program has been coordinated with essential elements in that grade and with the unique specific fire safety needs of that age group. The lesson plans have been field tested in classrooms across the state. On average, students who have been taught using these materials score 26 percent higher than students in control groups.

As you use this guide, you and teachers in other grade levels will be part of a continuum of fire safety education spanning all grades. The Texas Commission on Fire Protection believes this continuum will help create a generation of Texans who will be fire-safety aware. In turn, all Texans can benefit from a decre\_\_\_\_ in the number of needless fire deaths and an increase in safer homes and worksites — a benefit we all deserve.

#### This Booklet

This booklet, "Charged Up For Fire Safety," is specifically designed for fifth-grade students. The following sections give specific information on the essential

elements applicable to fire and burn prevention and on the agg-specific needs of fifth-grade students related to fires and burns. You will also find additional information on the format and materials found in this booklet.

#### This booklet has three sections:

- Lesson Plans. This section includes all steps in the lesson cycle.
- Teacher Materials. This section includes all teaching aids and tests.
- Student Materials Duplicating Masters. This section includes master copies of materials to be used by students.

## General Objectives: To explore heating equipment safety

To analyze the impact of fire on outdoor environment and methods to reduce that impact

To develop awareness of first aid for burns

To explore one's personal relationship to community fire safety

## Essential Elements: The student will be provided opportunities to:

- §75.25 (f) 2D. observe phenomena resulting from the life, earth, and physical sciences.
- §75.25 (f) 6A. predict the outcomes of actions based on experience or data.
- §75.25 (f) 6E. draw conclusions from observed data.
- §75.25 (f) 7B. Falate classroom objects, science principles, and activities to daily life.
- §75.26 (f) 1G. identify ways to care for the principal body systems.
- §75.26 (f) 1H. recognize hazards in the environment, and acquire knowledge and skills needed to avoid injury and to prevent accidents.
- §75.26 (f) 2A. recognize benefits and limitations of advertising as it relates to selection of health ... products.
- §75.26 (f) 2D. recognize need for first aid.
- §75.26 (f) 3A. identify locally available voluntary health agencies.
- §75.26 (f) 3B. recognize interdependence of people and the environment, and recognize personal responsibility for protecting the environment.
- §75.29 (f) 2B. explain why conservation of economic resources is important.



\*\* Science Content: Content from the sciences that shall be emphasized at the grade level shall include:

#### Earth Science

- 2.2 geology ... agents of weathering, erosion and deposition.
- 2.6 meteorology ... effects of weather change and severe weather types ... effects of weather on human activities.

#### Background: Age Profile

- Stage of industry vs. inferiority, which means the child needs to stay constructively busy. Because many differences in abilities are becoming more evident, comparisons among children should be avoided.
- Areas of development include neuromuscular and social. The child is developing many new physical skills, both gross and fine motor skills. He is making a social move from the home into peer groups and school. He is developing his own self-attitudes and seeks significant human relationships.
- Operating under the morality of cooperation, the child sees rules as mutual agreements made by those affected and involved in the situation. She tends to obey rules out of respect. The child can understand causes and consequences of actions.
- The child is capable of concrete operations, which means he can solve a variety of problems using concrete objects, and may be capable of formal operations, in which concrete objects are no longer needed for problem solving. He must be active in the instructional process, and activities and materials must be relevant to the child's life or environment. Instruction will be more effective if it involves both the affective and cognitive domains.
- The fifth-grader is interested in social, occupational and civic matters. She is becoming able to move from the simple to complex, concrete to abstract, undifferentiated to differentiated, discrete to organized.

#### Fire And Burn Hazards

- Curiosity about fires playing with matches and lighters, candles, fireplace, heaters, other locations where the child can observe a flame; overconfidence in dealing with fires.
- Scalds cooking; tap water; hot foods, especially heated sweet foods.
- Appliances cooking at stoves or with microwave ovens, especially unsupervised; overconfidence in using appliances, such as irons, toasters, etc.

- Clothing ignition playing with matches; flammable clothing and costumes; walking or sleeping too close to heater or other open flame; knowing how to reduce injury.
- Outdoor hazards campfires and barbecues; mini-bikes and lawn mowers; fireworks; high-tension wires.
- Other flammable liquids; fires caused by parents' smoking; injury from smoke and fire gases; knowing how to escape from fire.
- Teacher's Note On Materials: Illustrations and activity sheets in this booklet are intended to serve as masters. Photocopy, then use the photocopy as directed.
- Pre-Test and Post-Test: Administer the pre-test prior to the first lesson and the post-test after the final lesson.
- Teacher's Note on Closure Activities: Some activities included in the closure phase of the lesson cycle may be effectively used in the next lesson's focus activity.
- **Key To Icons:** The following icons can be used to easily identify activities in the lesson plans:
- Lesson objectives
- Focus and closure
- Creative group activity, including role playing
- Lecture
- Demonstration
- Group problem-solving activity
- Answering questions
- Guest presenter
- Investigation or research
- Creative writing activity
- Cut-and-paste activity
- Group discussion





Drawing, artwork or illustration



Lesson Plans



#### LESSON ONE:

## Charged Up For **Home Safety**

Goal: To explore how to use heating equipment safely in the



#### Objectives: The student will:

- explain hazards of heating equipment, including safety considerations such as UL inspection certification and proper placement \*25(f)7B, 26(f)1H, \*\*2.6
- analyze safety of alternative heating 25(f)6E, 26(f)1H),
- conduct inspection of home heating equipment with parents to check for safe usage \*25(f)7B, 26(f)1H, \*\*2.6

Materials: Pre-tests (p. 17); "Warm, But Not Too Hot" activity sheet (p. 29); "Charged Up For Home Safety" investigation activity (p. 30); answer keys (p. 25).



#### Focus: Administer pre-test.

Introduce unit by discussing energy. Have students list some possible sources of energy (electric power plants, from sun, from burning logs, "brain power"). Discuss ways this energy can be used. Tell students that their knowledge o. irre prevention gives them energy to create a safer environment for themselves, their friends and their families.

#### Present general objectives:

To explore heating equipment safety

To analyze the impact of fire on outdoor environment and methods to reduce that impact

To develop awareness of first aid for burns

To explore one's personal relationship to community fire safety

Present lesson objectives (see paragraph above).



#### Presentation Of Content: Teacher: "People

become very interested in energy when winter comes. They use energy for certain types of equipment to help stay warm. What are these? (Heaters) Why do we use heaters? (To stay warm.) What kinds of heaters do people use? (List on chalkboard.)"

Discuss types of heating equipment used in the classroom.

Review three elements of fire: heat, fuel and oxygen. Point out that heaters have all three elements. Ask what would happen if something that could burn - a fuel gets too close to a heater. (It would catch fire.)



#### Guided Practice: Distribute "Warm, But Not Too Hot" activity sheet. Have students read the description of each type of heater, then cut out and paste the heaters in the correct location. Have students draw a circle around the type that is least likely to cause a fire and put on X on any heater that could easily cause a fire or burn. (Answers might vary, depending on students' home environments.) Have students explain their selections.

- Independent Practice: Distribute "Charged Up For Home Safety\* activity sheet. Have the students read the instructions, then take home to complete the activity.
- NOTE: Base evaluation on student's willingness to participate in improving their home safety. Do not evaluate on the bases of the responses to the survey.
- Reteaching: Invite the school custodian or safety director to tell the students about heating equipment used in the school. Have him/her describe its power or fuel source, then describe what safety precautions are used to prevent fires.
- Enrichment: Have students contact a heating equipment maintenance company. Have them ask a company representative to describe his/her job.
- Closure: Have students describe their experiences with the heating equipment inspection. Ask students to summarize what they have learned about how the winter can influence their lives.

Introduce the next lesson by telling students that they will explore ways to prevent fires in another environments - the outdoors.



#### **LESSON TWO:**

#### Charged Up To Save The **Outdoors**

Goal: To apply knowledge of outdoor fire prevention to conservation of natural resources



#### Objectives: The student will:

- describe impact of grass and tree fires on land forms \*25(f)6E, \*\*2.2
- list steps in safe procedures for burning debris and cooking on charcoal, campfire, grill \*26(f)3B
- give examples and application of cleaning trash and brush to reduce fire hazard \*26(f)3B

Materials: "Who Protects The Great Outdoors" illustration (p. 18); "What's Going To Happen?" illustration (p. 19); writing paper.



Focus: Display the "Who Protects The Great Outdoors" illustration.

Teacher: "Weather affects our lives very much. In our last lesson, we talked about how people adapt to cold weather. We can even protect ourselves from storms and rain. But the grass, trees and soil cannot protection themselves, so we must do all we can to make sure that things we do don't cause the outdoors any more harm."

Outline lesson objectives (paragraph above).



#### Presentation Of Content: Display the "What's

Going To Happen?" illustration. Have students describe what they see. Tell them to imagine that vacationers left trash around house then left trash burning.

Divide students into small groups. In groups, have students predict what will happen to the land after the fire. (The house had to be rebuilt. Rains eroded the soil so nothing could grow. The animals who lived in the nearby woods had no place to live. Other reasonable answers may be accepted.)



Guided Practice: In groups, have students list what the people should have done to prevent unintentional

fires caused by useful outdoor fires. Have each group select its own specific topic — building campfires, cooking on a campfire or grill, or burning trash — then write four steps for preventing an unintentional fire.

Have groups exchange and compare lists. Note any similarities.

#### Suggested responses:

#### Building campfires

- 1. Clear a large area of all grass and leaves.
- 2. Circle the area with rocks, or dig a shallow hole.
- 3. Arrange logs (or other fuel), and have an adult light the campfire.
- 4. Completely put out the fire with water.

Cooking on a grill (charcoal or gas)

- 1. Have an adult check the grill to be sure it's safe.
- 2. Follow directions when operating the grill.
- 3. Never operate indoors, only outdoors with little or no
- Never leave cooking unattended.

#### Burning trash

- 1. Clear a large area of grass and brush.
- 2. Use a barrel with a screen lid.
- Burn only when there is no wind.
- 4. Put the fire out completely.

Accept other reasonable responses.

Independent Practice: Tell students that buildings with trees, brush or grass near them can easily catch fire if there is a grass or brush fire. Discussion might include the California brush fires of 1991 and 1992 that destroyed hundreds of expensive homes.

Have students look for places with trash and brush close to a building. Have them write a paragraph describing how the area should be cleaned and what might happen if a fire starts because the area was not cleared.

Evaluate students on their awareness of outdoor fire hazards and the dangers of allowing unsafe conditions to continue.



Reteaching: List the following on the chalkboard or a transparency.

- 1. No wind.
- 2. Clear the area.
- 3. Have water ready.
- 4. Put out any fire completely.



- Have students go through the list and describe how it might apply to all the type of fires discussed in Guided Practice.
- Enrichment: Have students research the California fires that began as small brush fires and eventually destroyed homes and property worth several million dollars.
- Invite a fire department representative to discuss the wildland-urban interface in your area.
- Closure: Briefly discuss what students found during the Independent Practice activity. Encourage students to share the activity with their families, especially if they notice fire hazards near their homes.
- Teacher: "In the first two lessons, we have learned about two important areas of fire safety heaters and the outdoors. In our next lesson, we will study other ways to help prevent fires."

#### LESSON THREE:

## Fire Hurts The Entire Community

Goal: To explore how each person and family can hurt community safety, especially through negative actions such as false alarms or arson

- Objectives: The student will:
  - identify hazard of false alarms, especially relating to wasting resources \*29(f)2B
  - describe hazards of intentional fires, especially relating to waste and loss of resources \*29(f)2B
- Materials: "Our Community" overhead transparency (p. 20); "Fire Hurts Us All" group discussion activity (p. 31); materials to make illustrations and collages; answer key (p. 25).
- Focus: Walk around the room, putting students' books, pencils and other small items into a box and saying, "Hey, you don't need that. No, you don't need that. This is fun ... You don't need that either."

- Ask students how they felt when their items were taken (sad, angry, frustrated).
- Teacher: "Fire protection professionals feel the same way when they feel that their services are being wasted. In this lesson, we'll learn ways to help our community by stopping false alarms and arson."

Outline lesson objectives (see paragraph above).



#### Presentation Of Content: Show "Our

Community" overhead transparency.

- Teacher: "People in communities depend on each other. We all contribute to the community through our taxes to make our community a safe and pleasant place to live. The community spends its money on needed services, such as the police and fire departments. It spends some money on enjoyable services, such as museums and parks.
- "Fire departments are expensive. Fire fighters must answer every call, and every call costs money. Even when the call is a false alarm, the fire department must answer it and money is spent. When more money must be spent on the fire department, less money can be spent on non-vital services such as the park.
- "Everyone in the community pays taxes shoppers, business owners, homeowners. When a store burns, the business owner can't sell any products, the workers can't earn their money, and the business owner might not be able to pay his taxes. That business fire caused less taxes to be going to the community and MORE taxes have to come from the rest of the community."



#### Guided Practice: Distribute "Fire Hurts Us All."

Option: Divide students into small groups to complete this activity.

Read and discuss each paragraph. In each item, emphasize that cities and companies are very concerned about how their money is used.



#### Independent Practice: Have students prepare

illustrations or collages that tell (1) what arson or a false alarm is or (2) why arson and false alarms are wastes. Students may clip headlines and pictures from newspapers and magazines to use as examples in their illustrations.

Evaluate students on their awareness that arson and false alarms are crimes and wasteful for the community.



Reteaching: Invite a fire department representative to discuss false alarms. Ask the representative to describe how a fire department response to fire emergency cails.

Invite an arson investigator or juvenile fire setter counselor to discuss the problems caused by children who play with matches or fire.

Enrichment: Have the students conduct a poll of their friends or classmates to find out their opinions of arson and false alarms. Have them prepare a chart to show their findings.

Post the illustration created by the students in the Independent Practice activity in the school or other public area.

Closure: Ask students to define arson and false alarms. Ask how arson and false alarms hurt a community (by wasting resources). Have students share their experiences in creating their collages/illustrations.

Teacher: "In this lesson, we learned how the actions of one person can hurt the community. In our next lesson, we will look at two ways that each of us can help our community become more fire safe."

#### LESSON FOUR:

## We All Contribute To Community Safety

Goal: To explore how each person can help community safety, especially through fire exit drills and volunteer work



Objectives: The student will:

- describe role of volunteer fire department in the community \*26(f)3A
- evaluate school exit drill \*25(f)2D,6A, 26(f)1H

Materials: "We're Ready" overhead transparency (p. 21); "We're Ready" discussion activity (p. 32); "Fire Exit Drill In Action" role-playing cards (p. 22); "How

Prepared Are We?" bservation activity (p. 33); answer key (p. 26).



Focus: Put chorus of "We're Ready" on chalkboard, or if using overhead, display with only chorus showing. Have all students read aloud, with beat as a rap verse. Tell students that in this lesson they'll learn how to be ready.

Outline lesson objective (see paragraph above).



#### Presentation Of Content: Distribute "We're

Ready" activity sheet. Re-read camrus, and answer question. Read first verse, then read and discuss questions. Point out that "word from the top" means special instructions from the teacher. Add that they must go to their assigned areas and wait.

Read second verse. Explain which type of fire department protects the local community. Point out that many students who live in rural areas have a volunteer fire department. Emphasize that volunteer fire fighters are not paid. Discuss why volunteers might work without pay (They know they help their community and friends. They want to contribute to an important organization.)



Guided Practice: Role-Playing Activity: Divide students into groups of six to eight. Distribute roleplaying cards. Have students read the cards, then act out what the cards describe. Emphasize the need to work together willingly, as members of a rolunteer fire department do, while reinforcing effective habits for fire exit drills.

Allow 10-15 minutes for this activity, allowing students to exchange roles and re-play the situation. Then have students describe their experiences in various roles.

Independent Practice: Distribute "How Prepared Are We?" Based on when students will do the evaluations, provide appropriate guidance on answering the questions.

Note: During this activity, students will evaluate a fire exit drill in the school. The teacher may select one of the following options:

- 1. Have students look back at their most recent schoolwide drill.
- 2. Schedule the activity for the next school exit drill.
- 3. Conduct a fire exit drill for his/her own classroom only and have students evaluate themselves.



- 4. Work with another teacher to hold individual classroom drills and have students evaluate the other class.
- Reteaching: Invite a fire safety instructor or fire fighter to discuss what can happen if students do not participate properly in a fire exit drill. Ask the fire fighter to observe and evaluate a fire exit drill.
- Enrichment: Have students organize their own "volunteer fire department" in the school. Encourage them to explore various roles or positions, such as fire marshal, inspector and monitor, to help the campus administration conduct fire exit drills.

Invite the chief or a member of a local volunteer fire department to describe qualifications for becoming a volunteer fire fighter.

Closure: Ask students to share their evaluations of the fire exit drill. Have them point out positive actions of other students, as well as actions that need improvement. Ask students if they will make any changes themselves in how they act during exit drills. Prepare for final lesson by telling the students that they will be learning about what to do in another emergency situation --- suffering a bum.

#### **LESSON FIVE:**

#### Fire Safety For Yourself

Goal: To examine appropriate first aid for burns and to examine product safety related to fires and burns

- Objectives: The student will:
  - describes three classes of burns and first aid for each \*26(f)1G,2D
  - analyze produce advertisements for fire and burn safety information \*26(f)2A
  - gives examples of correcting holiday hazards \*26(f)1H

Materials: "Fire And Burn Safety Alert" overhead transparency (p. 23); "Charged Up For Burn Safety" activity sheet (p. 34); post-tests (p. 24); answer keys (p. 25-26).



Focus: Draw an octagon on the chalkboard. Ask students what that shape is a symbol for. (To stop while driving or riding a bike.) Have students list other signs and symbols they see. (EXIT, traffic light, Do Not Enter.)

Teacher: "Many of these signs are used for our safety. Some signs and symbols are used to tell us about fire and burn safety. In our earlier lessons, we learned some important ways to prevent fires and burns. Now, we'll learn some new things to help in care there is a fire and someone is burned."

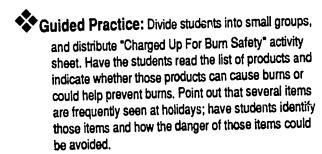
Outline lesson objectives (paragraph above).



Presentation Of Content: Lead discussion of the definition of a burn — damage to the body caused by heat. Tell students that medical professionals classify burns by "degrees" depending on how much the skin has been damaged.

Teacher: "Not all burns look alike. We can tell how much damage has been caused by how the burn looks. We can use this chart of symbols to relate how a burn looks to the degree of burn."

Display "Fire And Burn Safety Alert" overhead transparency. Discuss first, second and third degree burns.





Have the groups complete the section on matching descriptions to classification of burns.

Independent Practice: Investigation. Have students check their kitchens, bathrooms and garages for labels or other signs or symbols that warn of fire or burn dangers, then write a paragraph about what they found. Ask students to conclude their papers by writing a paragraph about why they should be concerned about preventing burns.



- Reteaching: Invite the schools nurse to talk to the students about types of burns.
- appliances and their advertisements for information on fire or burn safety. Have students unite what they find, including their opinions on whether there is enough safety information in product labeling or advertisements.
- Closure: Review the three classes of burns and why first aid is needed for burns. Ask students what new things they learned about fire prevention during this unit. Ask if they have changed or plan to change how they act around objects that could cause fires or burns. Encourage them to help their families and friends learn about fire safety.

Administer post-test.



Teacher Supplemental Materials



Name			
Fifth	Grade: Making Me Fire Safe PRE-TEST		
Circl	e <b>True</b> or <b>False</b> .		
1.	Heating equipment does not need to be inspected unless there is a problem.	True	False
2.	Weather can affect the opportunity for fires.	True	False
3.	Cleaning up trash outdoors can help prevent fires.	True	False
4.	You help your community by participating in fire drills at school.	True	False
5.	The label on a product must tell if it can cause burns.	True	False
6.	Setting a fire on purpose is a _rime.	True	False
7.	Making a false alarm is not a crime.	True	False
8.	False alarms waste money.	True	False
Rea	ad the question, and fill in the blank.		
9.	What effect does a grass fire have?		
10.	Doctors classify (or group) burns by their	·	
11.	Starting a fire on purpose is called		
12	. List three ways to keep a campfire from starting a bigger fire:		
	A		
	B		
	C		_
Ci	rcle the letter that is the correct answer.		
13	3. Which is more likely to cause a fire? 14. Arson hurts: A. Only the owner	r of the buildi	ing that

A. Central heatingB. Electric space heater

- was burned.
- B. No one.
- C. The entire community.

Teacher: Use with Lesson One, Page 9. Duplicate for student use.



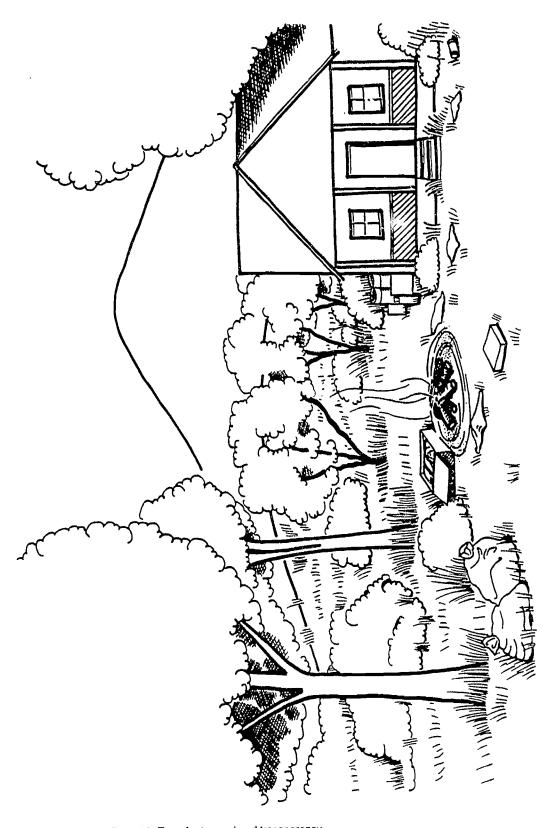
#### Who Protects The Great Outdoors?



Teacher: Use with Lesson Two, Page 10. Transfer to overhead transparency.



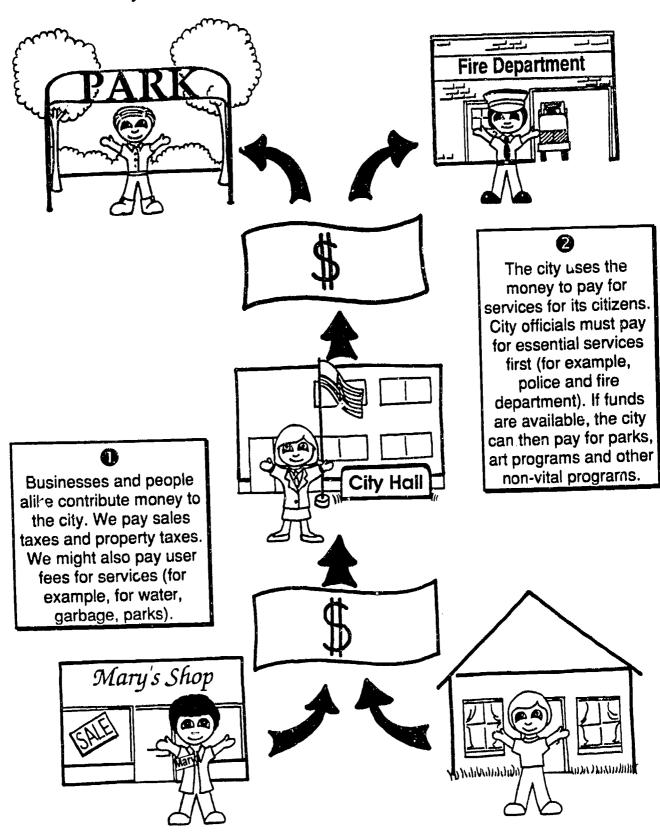
What's Going To Happen?
Discuss what might happen if a campfire is left burning in this yard.



Teacher: Use with Lesson Two, Page 10. Transfer to overhead transparency.



#### **Our Community**



Teacher: Use with Lesson Three, Page 11. Transfer to overhead transparency.



#### We're Ready

We want to be ready,

Yeah, we sure do.

In case there's a fire,

what do we do?

We will be prepared,

yeah, we sure will,

'Cause we're gonna have

a fire exit drill.

Some folks gonna help us.

Now, they're real hot.

For some it's a job,

for some it's not.

A fire department

can come two ways:

Some folks volunteer,

and some get pay.

When the fire bell rings,

you gotta stop

And listen real close -

what's the word from the top?

Go out real calm

the nearest way.

Now, don't you run

or joke or play.

Teacher: Use with Lesson Four, Page 12. Transfer to overhead transparency.



#### Fire Exit Drill In Action

Role-Playing Cards

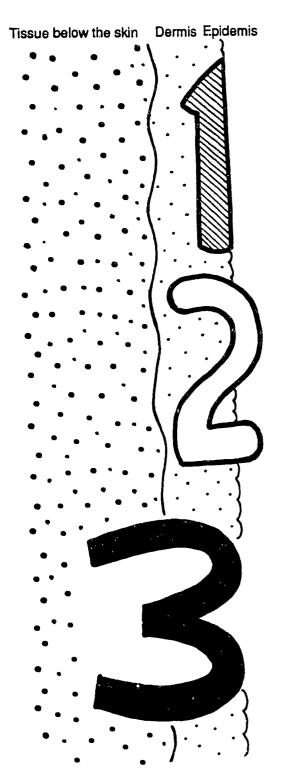
students and	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	the fire marshal.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.

Teacher: Use with Lesson Four, Page 12. Copy, then cut apart. Distribute one set to each group. Have students assign roles. Designate extra group members as additional "students."



#### Fire and Burn Safety Alert

Medical professionals classify (or group) burns by "degrees." The "degree" tells how much the skin has been damaged. It also guides how the burn should be treated. The chart below illustrates the three types of burns.



#### First-Degree Burn:

The top layer of skin is burned.

Pink or red. Usually fades in a few minutes or hours.

Treat the burn by running cool water over the burn for three to five minutes.

#### Second-Degree Burn:

The top and middle layers of skin are burned.

Red or white with water blisters.

Painful.

Treat the burn by running cool water over the burn for three to five minutes. See a doctor if the burn covers a large area.

#### Third-Degree Burn:

The full thickness of skin is burned.

Dry, black or ashy.

Sometimes no pain because nerve sensors are damaged.

Call emergency medical assistance or go to the emergency room immediately. If possible, cool with cool water to prevent further burning.

Teacher: Use with Lesson Five, Page 13. Transfer to overhead transparency.



Name			
Fifth (	Grade: Making Me Fire Safe	POST-TEST	
Circle	e True or False.		
1.	Heating equipment does not need to be inspecte unless there is a problem.	d Tru	
2.	Weather can affect the opportunity for fires.	Tru	
3.	Cleaning up trash outdoors can help prevent fire	s. Tru	e False
4.	You help your community by participating in fire	drills at school. Tru	ie False
5.	The label on a product must tell if it can cause b	_	ie False
6.	Setting a fire on purpose is a crime.	Tru	ue False
7.	Making a false alarm is not a crime.	Tro	ue False
8.	False alarms waste money.	Tro	ue False
	ad the question, and fill in the blank.		
9.	What effect does a grass fire have?		
10.	Doctors classify (or group) burns by their	·	
	Starting a fire on purpose is called		
12	. List three ways to keep a campfire from starting	g a bigger fire:	
	A		
	В		
	C		
Ci	rcle the letter that is the correct answer.		
13	3. Which is more likely to cause a fire? 14.	Arson hurts:  A. Only the owner of the bu	uilding that

Teacher: Use with Lesson Five, Page 13. Duplicate for student use.



B. No one.

was burned.

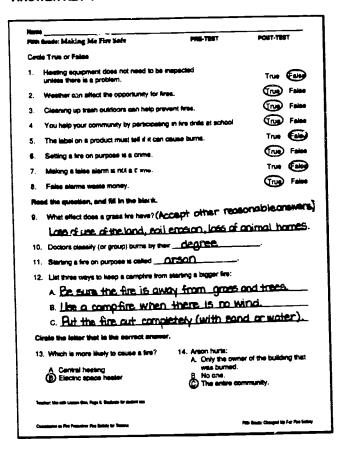
C. The entire community.

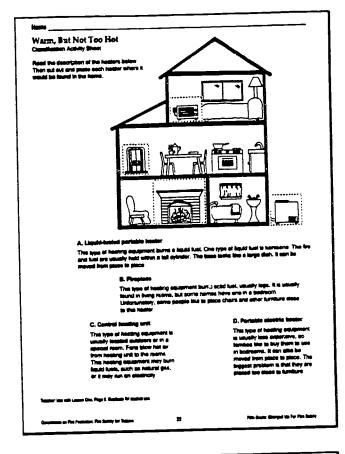
24

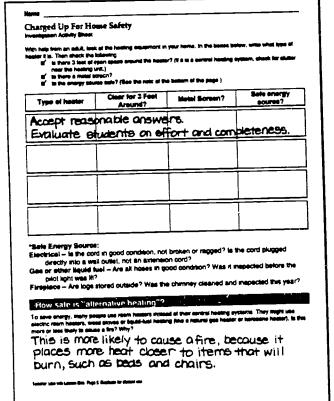
A. Central heating

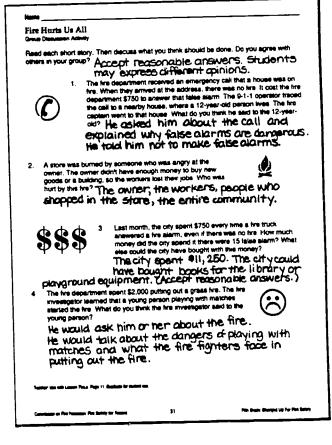
B. Electric space heater

#### **ANSWER KEY-1**







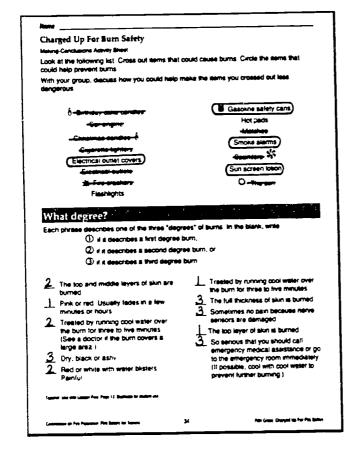


Communication For Particular Part Service Services

#### **ANSWER KEY-2**

We're Ready Afny as it important for you to be We want to be ready. ed for a feet Yesh, we sure do. Hts hand to think In case there's a fire, in an emergency. what do we do? To keep from being We will be prepared, hurt in a fire. yeah, we sure will, 'Cause we're gonna have a fire exit drill. to your local ten depar paid or volunteer? Some tolks gonna help us. Now, they're real hot. Accept correct For some It's a job. responses. for some it's not. A fire department can come two ways: Some folks volunteer. and some get pay. List the Eyee things you should do when you hear a fire alarm. When the fire bell rings, you gotta stop 1. Stop what you And listen real close are doing. 2. Listen to directions. what's the word from the top? Go out real calm the nearest way. 3. Go out colmly and quietly. Now, don't you run or loke or play. The State Street Up for Fire States

How Prepared Are We? Observe now your class (or another class) reacts to a fire solt drill. Write your obtaind conclusion below Time the tire elern sounded Accept reasonable answers. 1 How many marries to get example Torget 1-3 minutes te the class's actions. Check the box that describes what you observed Okay Sale Actions Answers should be of behavior. Walland out calmly Staying quart Waiting in assigned area Going back in quietly What could you do to help the cleas do a better job? Answers should relate to items above marked "Okoy" or "Unsafe Actions." the same County to for the Sale





## Student Materials — Duplicating Masters

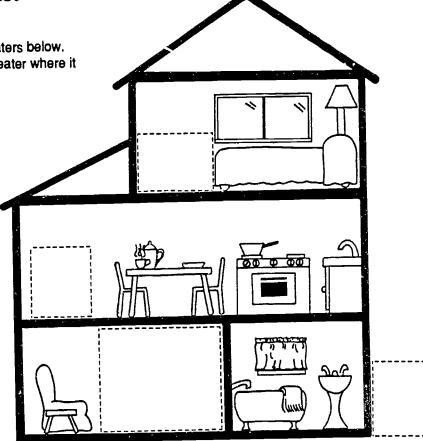


Name

#### Warm, But Not Too Hot

**Classification Activity Sheet** 

Read the description of the heaters below. Then cut out and paste each heater where it would be found in the home.





#### A. Liquid-fueled portable heater

This type of heating equipment burns a liquid fuel. One type of liquid fuel is kerosene. The fire and fuel are usually held within a tall cylinder. The base looks like a large dish. It can be moved from place to place.



#### B. Fireplace

This type of heating equipment burns solid fuel, usually logs. It is usually found in living rooms, but some homes have one in a bedroom.

Unfortunately, some people like to place chairs and other furniture close to this heater.





This type of heating equipment is usually located outdoors or in a special room. Fans blow hot air from heating unit to the rooms. This heating equipment may burn liquid fuels, such as natural gas, or it may run on electricity.



#### D. Portable electric heater

This type of heating equipment is usually less expensive, so families like to buy them to use in bedrooms. It can also be moved from place to place. The biggest problem is that they are placed too close to furniture.

Teacher: Use with Lesson One, Page 9. Duplicate for student use.



#### Charged Up For Home Safety

Investigation Activity Sheet

With help from an adult, look at the heating equipment in your home. In the boxes below, write what type of heater it is. Then check the following:

- Is there 3 feet of open space around the heater? (If it is a central heating system, check for clutter near the heating unit.)
- is there a metal screen?
- Is the energy source safe? (See the note at the bottom of the page.)

Type of heater	Clear for 3 Feet Around?	Metal Screen?	Safe energy source?
			<u></u>

\*Safe Energy Source:

Electrical - Is the cord in good condition, not broken or ragged? Is the cord plugged directly into a wall outlet, not an extension cord?

Gas or other liquid fuel - Are all hoses in good condition? Was it inspected before the pilot light was lit?

Fireplace - Are logs stored outside? Was the chimney cleaned and inspected this year?

#### How safe is "alternative heating"?

To save energy, many people use room heaters instead of their central heating systems. They might use electric room heaters, wood stoves or liquid-fuel heating (like a natural gas heater or kerosene heater). Is this more or less likely to cause a fire? Why?

Teacher: Use with Lesson One, Page 9. Duplicate for student use.



#### Fire Hurts Us All

**Group Discussion Activity** 

Read each short story. Then discuss what you think should be done. Do you agree with others in your group?



- 1. The fire department received an emergency call that a house was on fire. When they arrived at the address, there was no fire. It cost the fire department \$750 to answer that false alarm. The 9-1-1 operator traced the call to a nearby house, where a 12-year-old person lives. The fire captain went to that house. What do you think he said to the 12-year-old?
- 2. A store was burned by someone who was angry at the owner. The owner didn't have enough money to buy new goods or a building, so the workers lost their jobs. Who was hurt by this fire?





- 3. Last month, the city spent \$750 every time a fire truck answered a fire alarm, even if there was no fire. How much money did the city spend it there were 15 false alarms? What else could the city have bought with this money?
- 4. The fire department spent \$2,000 putting out a grass fire. The fire investigator learned that a young person playing with matches started the fire. What do you think the fire investigator said to the young person?



Teacher: Use with Lesson Three, Page 11. Duplicate for student use.

Name

#### We're Ready

**Discussion Activity** 

Read each verse, then discuss the questions.

 $\mathbf{W}$ e want to be ready,

Yeah, we sure do.

In case there's a fire,

what do we do?

We will be prepared,

yeah, we sure will,

'Cause we're gonna have

a fire exit drill.

Some folks gonna help us.

Now, they're real hot.

For some it's a job,

for some it's not.

A fire department

can come two ways:

Some folks volunteer,

and some get pay.

When the fire bell rings,

you gotta stop

And listen real close -

what's the word from the top?

Go out real calm

the nearest way.

Now, don't you run

or joke or play.

Why is it important for you to be prepared for a fire?

Is your local fire department paid or volunteer?

List the three things you should do when you hear a fire alarm.

Teacher: Use with Lesson Four, Page 12. Duplicate for student use.



Name				
How Prepared Are We? Observation Activity Sheet				
Observe how your class (or another cland conclusion below.	ass) reacts to a fire ex	cit drill. Write	your observations	
Time the fire alarm sounded:				
How many minutes to get outside	e:			
Rate the class's actions. Check the box that describes what you observed				
	Safe Actions	⊕ Okay	Unsafe Actions	
Walking out calmly				
Staying quiet				
Waiting in assigned area				

What could you do to help the class do a better job?

ERIC TO THE PROVIDENCE OF THE PROVIDE OF THE PROVIDENCE OF THE PROVIDENCE OF THE PROVIDENCE OF THE PRO

33

Going back in quietly

Name Charged Up For Burn Safety Making-Conclusions Activity Sheet Look at the following list. Cross out items that could cause burns. Circle the items that could help prevent burns. With your group, discuss how you could help make the items you crossed out less dangerous. Gasoline safety cans Birthday cake candles Hot pads Car engine Matches Christmas candles b Smoke alarms Cigarette lighters Sparklers \* Electrical outlet covers Sun screen lotion **Electrical outlets** The sun ★ Fire crackers **Flashlights** What degree? Each phrase describes one of the three "degrees" of burns. In the blank, write: ① if it describes a first degree burn, 2) if it describes a second degree burn, or 3 if it describes a third degree burn. Treated by running cool water over The top and middle layers of skin are the burn for three to five minutes. burned. The full thickness of skin is burned. Pink or red. Usually fades in a few Sometimes no pain because nerve minutes or hours. sensors are damaged. Treated by running cool water over \_The top layer of skin is burned. the burn for three to five minutes. (See a doctor if the burn covers a So serious that you should call large area.) emergency medical assistance or go to the emergency room immediately. Dry, black or ashy. (If possible, cool with cool water to Red or white with water blisters. prevent further burning.) Painful.

Teacher: Use with Lesson Five, Page 13. Duplicate for student use.

